Cumulative Index

THIS Key Word Thesaurus and the Index of Titles which follows it form a simplified, concept co-ordinated information retrieval system for all the technical articles which appear in all 27 issues of Vol. 1 of TEXTILE CHEMIST AND COLORIST.

The numbers following the entries in the Key Word Thesaurus are used in conjunction with the Index of Titles to locate and identify those articles which are described by particular combinations of key words.

For example: Information about the effects of flameproofing agents on the lightfastness of direct-dyed fabrics is found by examining the title numbers listed after each of the appropriate key words:

Flameproofing Agents	4, 11, 23, 24, 29, 31
Direct Dyes	10, 23
Lightfastness	13, 19, 23

Title 23, which is common to all three key words, will provide the desired information. Consulting the Index of Titles identifies and locates Title 23 as "Effects of THPC on the Lightfastness of Dyes and Pigments," issue No. 5, page 15/124.

In the following Index of Titles and Index of Authors the numbers to the right of the entry identify the issue and page number for that article. The digit preceding the hyphen indicates the issue. The digits following the hyphen cite the page number in that issue. Where page numbers are followed by a virgule (/), the number following the virgule denotes the continuous pagination of all Vol. 1 technical manuscripts.

References to non-technical AATCC activities are listed in the Index of Authors under AATCC Activities.

Key Word Thesaurus

AATCC 38
Abrasion 7, 67, 73, 109
Abrasion Resistance 73
Abrasion Tests 7, 73
Acetate Fibers 15
Acid Dyes 10
Acridinium Dyes 92
Acrylic Dyes 92
Acrylic Fibers 15, 16, 72, 85, 88, 100, 120
Acrylic Resins 125, 126
Acrylonitrile 40
Additives 100
Adhesive Bonding 51, 97, 126, 128, 129
Adhesives 100, 112, 128
Air Permeability 112
Air Pollution 52
Alkalies 8
Amino Acids 4
Analysis 10, 93, 104
Anionic Compounds 100
Apparel 103, 105, 107
Application 118
Atmospheric Dyeing 82
Automation 25
Azoic Dyes 58, 80, 108

Barré 82
Batch Processes 56, 88
Battings 64
Beta Rays 103
Becks 47, 55, 56
Binders 44
Biochemical Oxygen Demand 27, 33, 34, 35
Bleaching 123
Blends 15, 41, 54, 78, 80, 89, 95, 102, 106, 109, 119, 120, 123
Bond Energy 101
Bonding 51, 81, 112, 126, 127, 128, 129
Bonding Machines 127, 128
Bonding Strength 126, 127, 128, 129

Calendering 6, 74
Calenders 74
Capillarity 41, 60
Carbamates 91, 122
Care Instructions 111
Carpets 6, 13, 47, 72, 85
Carriers 82, 84, 88, 95
Catalysts 122
Cationic Compounds 100
Cationic Dyes 10, 66, 84, 85, 95
Cellulose 9, 86, 96, 101, 115
Cellulose Acetate 12
Cellulosic Dyes 95
Cellulosic Fibers 14, 15, 80, 86, 96, 102, 108, 119, 120, 122
Chelating 13
Chemical Analysis 10, 93
Chemical Attack 8
Chemical Modification 20, 96
Chemical Oxygen Demand 34, 35
Chlorinated Solvents 30, 49
Chromatography 10, 60
CIE System 2, 45, 63
Clo 64
Coatings 79, 81
Color 2, 5, 45, 63
Colorfastness 3, 19, 23, 42, 43, 44, 52, 53, 59, 61, 62, 70, 71, 94
Colorimetric Analysis 5, 45, 63
Color Matching 2, 16, 39, 63
Color Matching Computers 16
Color Measurement 2, 5, 45, 63, 102
Color Measurement Instruments 16, 45
Color Yield 102
Communication 27, 117
Compactor 45
Complaints 104
Compressive Shrinkage 45
Computers 16, 25, 39
Concept Co-Ordination 28
Consumers 111
Continuous Processes 6, 12, 15, 46, 54, 72, 88, 98, 99, 123
Control Equipment 25
Correlation 107
Costs 77, 113
Cotton 9, 14, 20, 40, 41, 54, 78, 83, 87, 91, 96, 109, 113, 123
Cotton Fibers 89
Crease Recovery 14, 20, 26, 83, 91, 106
Crease Resistance 26, 106
Crease Retention 20
Crimp 118
Crimping 121
Crocking 19, 94
Cross Dyeing 120
Crosslinking 14, 20, 26, 77, 83, 91, 96, 114, 122, 124, 125
Crosslinking Resin 41
Crystal Structure 96
Curing 91, 96, 122
Customer 104, 105

Data 104, 115
Data Collection 104
Decision Theory 1
Degradation 9, 17
Designs 60
Detergents 110
Diazotization 80, 108
Difunctional Compounds 125
Digital Computers 16
Dimensional Stability 45
Dimethyl Dihydroxy Ethylene Urea 14, 124
Direct Dyes 10, 23, 95
Dispersants 68
Disperse Dyes 10, 52, 56, 85, 95, 102, 119, 121
Dispersions 44
Drycleaning 42, 43, 44
Drying 110
Durability 67
Durable Finishes 113
Durable Press 14, 19, 26, 41, 43, 54, 78, 83, 89, 109, 114, 122, 124, 125
Dyeing 4, 6, 12, 15, 39, 44, 46, 47, 54, 55, 56, 72, 82, 85, 88, 95, 98, 99, 100, 108, 118, 120, 121
Dyeing Assistants 100
Dyeing Machines 25, 56, 98
Dyes 10, 13, 23, 53, 60, 63, 69, 76, 88, 99, 108, 116

Economic Factors 37
Efficiency 117
Effluents 27
Elastomers 81
Electrostatic Flocking 97
Eluents 60
Emulsifying Agents 68
Emulsions 44
Engineering 116
Equipment 1, 49, 57, 72, 73, 75, 123
Esters 125
Ethylene Oxide 68
Evaluation 1, 48, 116, 117
Extraction 6

Fabric Construction 87, 106, 112
Fabric Properties 67, 87, 106
Fading 70, 71
Fabric Properties 67, 87, 96
Fibers 72, 118
Fibrillation 7
Finishes 11, 12, 14, 20, 26, 29, 41, 48, 61, 62, 126, 127
Finishing 11, 12, 14, 20, 26, 29, 49, 77, 78, 79, 83, 89, 91, 114, 124, 125
Finishing Agents 91
Finishing Machines 50
Fixation 76, 80
Flame Bonding 51, 127
Flameproofing 57, 65, 84, 114
Flameproofing Agents 4, 11, 23, 24, 29, 31, 57, 65, 78, 113
Flammability 11, 24, 31, 57, 65, 75, 84, 94, 12, 113, 115
Flock Fibers 97
Flocked Materials 97
Flocking 81, 97
Flocking Machines 97
Fluorescent Dyes 92
Formaldehyde 14, 20
Formaldehyde Derivatives 124
Forms (Paper) 104
Formulation 39
Frosting 7, 54
Fusibility 128

Gamma Rays 17
Gas Fading 19, 52
Germicide 114
Glass Fibers 94
Grafting 14
Graft Polymerization 40

Halogenated Hydrocarbons 29
Hand 1
Heat Fixation 102
Heat Transfer 24, 64
High Humidity 70, 71
High Temperature 24
High-Wet-Modulus Rayon 86, 87, 88, 89
Hydrogen Bonding 101
Hydrogen Peroxide 123
Hydrolysis 8

1,3-Indandione 58
Industrial Relations 27
Information Retrieval 28
Information Storage 28
Information Systems 28
Information Theory 1
Instrumentation 24, 39, 45, 48
Insulation 24, 64
Ionizing Radiation 77
Irradiation 77
ISO 3
Isocyanates 14, 81

Jet Dyeing 55, 56
Jig Dyeing 25

Keratin 4, 59
Knit Fabrics 66, 123

Labels 111
Laboratory Tests 107
Laminating 51, 81, 112, 127
Lasers 17
Laundering 110, 111
Legislation 31, 32, 33, 36, 65
Lightfastness 13, 19, 23, 52, 53, 58
Low Temperature 124
Lubricants 79

Malonitrile Dyes 58
Manmade Fibers 72, 86, 118
Mathematical Models 1
Measurement 7, 39, 115
Mechanical Finishing 50, 74
Metamerism 2, 39, 45
Methine Dyes 58
Micro-Stretch 26
Migration 119
Modacrylic Dyes 92
Multicolor Effects 120

Textile Chemist and Colorist is available on microfilm from University Microfilms, Ann Arbor, Michigan 48106.

Cumulative Index

Continued From Inside Back Cover

Naphthol Dyes 80, 108
Natural Fibers 118
Nitrogen Compounds 113
N-Methylol Compounds 20, 122
Nomex 84
Nonionic Compounds 68, 100
Nylon 17, 54, 72
Nylon Fibers 15, 46
Nylon Sleeves 74

Oil Repellent Finishes 18
Oils 18, 21, 22
Oil Stains 18, 21, 22, 48
Open-Width Processing 98
Optical Brighteners 110
Organization 38
Orientation 118
Outdoor-Indoor Carpeting 13
Oxidation 9, 101
Oxidizing Agents 69
Ozone 52, 70, 71

Package Dyeing 47, 82
Padding 6, 44, 99
Para-Aminobenzaldehyde 58
Performance 107
pH 46
Phosphorous Compounds 113, 115
Photochemical Degradation 9, 17
Photoelectric Devices 7
Physical Tests 67
Pigment Printing 44
Pigments 44, 76
Planning 37
Plants 37
Pleating 61, 62
Polyamide Fibers 120
Polyester Fibers 15, 41, 47, 80, 82, 88, 89, 95, 102, 106, 109, 119, 120, 121
Polyesters 15, 47, 72, 78, 87, 127
Polyethylene Terephthalate 8
Polymerization 14, 77
Polymers 77
Polypropylene 13
Polyurethanes 81, 127
Pressure Dyeing 47, 82
Pressure Rolls 74
Printing 24, 76, 80, 94, 108
Printing Pastes 80, 94
Problems 117
Processing 77
Production 129
Protecting Clothing 24
Proteins 4
Publicity 27

Qualitative Analysis 93
Quantitative Analysis 93
Quality Control 97, 129

Radiation 17, 24, 122
Rayon 40
Reactive Dyes 23, 59, 119
Reducing Agents 69
Reduction 101
Research 30, 65, 116, 117, 118
Research and Development 30, 33, 116, 117
Resin Finishing 26, 124, 125
Resin Finishing Agents 29, 83
Retarders 66
Rotary Screen Printing 76

Scouring 47, 49, 100
Screen Printing 94
Selection 116, 117
Shirley Institute 30
Shirts 109
Shrinkage 67
Shrinkproofing 4
Silicones 79
Single-Step Processes 114
Sites 37
Sodium Cellulosate 40
Softeners 79
Soiling 18, 21, 22, 110
Soiling Tests 5
Soil Release 12, 22, 41, 48
Soil Release Finishes 125
Soil Resistant Finishes 5, 18, 19, 125
Soils 18, 21, 22
Solvent Processing 49
Solvents 129
Solutions 60
Solvents 29, 60
Spectrophotometers 16, 39, 45, 102
Spectroscopy 5, 63, 93
Staining 48
Staining Tests 5, 21, 22
Stains 18, 21, 22
Standardization 3, 39
Standards 21, 22, 31, 36, 51, 65
Statistical Data 1, 105
Steaming 15, 124
Stress-Strain Curves 50
Stretch Properties 4, 50
Structure 101, 118
Sublimation 102

Sulfur Dyes 23, 69, 99
Sunlight 17
Surface Properties 18
Surfactants 10, 68, 93
Surveys 104
Synthetic Fibers 72

Tensile Strength 17
Testing 3, 7, 11, 21, 22, 31, 36, 42, 43, 44, 51, 57, 61, 62, 65, 70, 71, 73, 75, 97, 103, 107, 115
Textile Industry 27
Textile Information 28
Textile Research 30
Textiles 111
Textured Yarns 82, 121
Thermal Properties 64
Thermal Stability 24
Thermoplastic Resins 128
Thermosol Process 119, 121
Thickeners 76
Thiosulfate Dyes 99
THP 78
THPC 78
THPOH 78
Triacetate Fibers 88, 89
Tricyanovinyl Dyes 58
Tufted Fabrics 46, 85

Ultraviolet Absorbers 9
Ultraviolet Radiation 9, 17
Union Dyeing 80
Urea-Formaldehyde 20
Urethane Foams 51, 127
Urethanes 129
Usefulness 105

Value 105
Vapor Phase 20, 83
Vat Dyes 23, 101, 119
Viscose Fibers 86
Viscosity 46

Warmth Factor 64
Washing 67, 98
Washing Machines 98, 110
Wash-Wear 109
Wastes 27
Waste Treatment 27, 37
Water Pollution 27, 32, 33, 34, 35, 36, 37
Weathering 9, 17
Washfastness 19
Waterproofing Agents 79
Water Repellents 79
Wear 67, 73, 103, 105, 107, 109, 111
Wear Tests 73
Wetfastness 59
Wetting Agents 68
Wool 4, 59, 95, 106, 123
Wool Finishing 29
Wrinkle Recovery 96

X-Ray Analysis 103

Yarn Properties 40

Index of Titles

(1) New Concepts in Evaluating Fabric Hand, Harold P. Lundgren 1-35/1
(2) The Degree of Color Metamerism and Its Specification, Gunter Wyszecki 1-46/12
(3) Delegates Pleased With Results of ISO Meeting on Colorfastness Tests, George S. Wham 1-50
(4) A Proposed Method for Making Wool Shrink-Resistant and Stretchable Without Damaging Fiber Structure, Research Committee, Ontario Section, CATCC 1-54/16
(5) Colorimetric Evaluation of Oil Stains on Textile Fabrics, W. B. Prescott and E. I. Stearns 1-65/26
(6) The Butterworth-Küsters System for Continuous Dyeing of Carpet, C. H. Amidon 2-13/40
(7) An Instrument for the Measurement of Frosting, Research Committee, Gulf Coast Section, AATCC 2-16/43
(8) Some Aspects of Alkaline Hydrolysis of Poly(ethylene Terephthalate), C. G. Govindan Namboodri
(9) Treatments for Reducing Photochemical Degradation of Cotton Cellulose, David M. Wiles and J. David Cooney 2-26/52
(10) Thin Layer Chromatography: An Overlooked Analytical Tool, Research Committee, Northern Piedmont Section, AATCC 2-32/58
(11) A Fire in Our Bosom, William M. Segall 3-9/67
(12) Renewed Interest In Solvent Dyeing, George M. Gantz and Gerald Siegrist 3-12/70
(13) A New Print System for Outdoor-Indoor Polypropylene Carpeting, R. R. Haynes, J. H. Mathews and G. A. Heath 3-16/74
(14) A Status Report on All-Cotton Durable Press Research, B. M. Kopacz and R. M. Perkins 3-22/80
(15) High Temperature Steaming in Continuous Piece Goods Dyeing, R. T. Norris 3-31/88
(16) An Advanced Digital Color Matching Computer for Textile Dyers, Chester Harris Jr. 3-40/96
(17) Degradation of Polyamide Fibers Exposed To Various Sources of Radiation, Research Committee, Rhode Island Section, AATCC 4-13/99
(18) The Physical Chemistry of Stain Release, Samuel Smith and Patsy O. Sherman 4-20/105
(19) The Interrelation of Dyes and Soil Release Finishes on Polyester/Cellulosic Blends, E. F. Schnider and C. W. Schouten 4-25/110
(20) Chemical Modification of Cotton By Vapor Treatment, H. J. Campbell and M. L. Staples 4-33/117
(21) AATCC Develops Soil Release Test, Lewis T. Kelly
(22) AATCC Test Method 130-1969 Soil Release: Oily Stain Release Method 5-9/122
(23) Effects of THPC on the Lightfastness of Dyes and Pigments, Research Committee, Piedmont Section, AATCC 5-15/124
(24) The Effect of Textile Finishes on Thermal Protection, Earl T. Waldron 5-22/130
(25) Advances in Jig Dyeing Equipment, Andrew J. McNulty 5-28/135
(26) Micro-Stretch: A New Aid to Resin Finishing, W. S. Troope 5-32/138
(27) Water Pollution Control In The Textile Industry 6-21/142
(28) Information Retrieval For Beginners, J. W. Weaver 6-39/158
(29) Reactive Finishes Applied From Chlorinated Systems, Richard H. Symm 6-42/161
(30) The Shirley Institute, R. L. Colbran and J. D. Warwicker 6-47/165
(31) The Interest in Flammability Is Worldwide 7-19/168
(32) Better Management Of Water Resources Is A Must If Future Needs Are To Be Met, K. L. Kollar 7-23/171
(33) Federal Assistance Available To Companies Establishing Pollution Control Programs, William J. Lacy and Allen Cywin 7-25/173
(34) Treating Wastes In A Water-Short Area, Dan M. Wells and Herman M. Clay 7-28/176
(35) Research On Treatment Of Dye Wastes, D. L. Michelsen 7-32/179
(36) Water Quality Management In Virginia, A. H. Paessler 7-35/181
(37) The Availability Of Quality Water Is Important In Picking A Plant Site, Thomas A. Fridy 7-40/185
(38) AATCC Organization and Activities for 1969 8-6/188
(39) A Millman's Use of the Computer, Earle R. McLean 8-17/192
(40) Anionic Graft Polymerization of Acrylonitrile on Cotton Yarns, Ludwig Rebenfeld 8-25/198
(41) Capillary Rise Related To the Soil Release Performance of Durable Press Fabrics, Research Committee, Southeastern Section, AATCC 8-31/202
(42) A New Test Method For Colorfastness To Drycleaning, Albert E. Johnson 9-17/208
(43) AATCC Test Method 132-1969, Colorfastness To Drycleaning, AATCC Committee RA43 9-18/209
(44) Drycleanfast Pigment Emulsion Systems: Their Production and Evaluation, Theodore Antoniou and Albert E. Johnson 9-19/210
(45) Instrumental Shade Sorting To Visual Acceptance Limits, John W. Ward 9-25/214
(46) The Continuous Dyeing of Tufted Nylon Carpets, Edward S. Olson 9-32/220
(47) Dyeing Texturized Polyester On Packages and Pressure Becks, Ronald W. Stevens and John E. Nettles 10-15/228
(48) An Instrumental Study of Variables Affecting Soil Release, Gary B. Aspelin, William B. Prescott and Ray R. Krammes 10-18/231
(49) Organic Solvents in Preparation and Finishing, Robert E. Ritter 10-22/234
(50) Mechanical Finishing With The FRL Compactor, T. T. Constantine and K. R. Fox 10-25/236
(51) Bonding and Laminating: What's The Future? 11-17/241
(52) Ozone Fading Of Dyes, Victor S. Salvin 11-22/245

(53) The Resistance of Dyed Textiles to Daylight, Research Committee, Quebec Section, CATCC 11-32/252
(54) One-Pass Dyeing of Cotton/Nylon Blends, I. A. Saad, R.P.S. Black, W. J. Wygand and B. L. Matthews 12-17/261
(55) Operation of the Jet Dyeing Machine, William T. Carpenter 12-22/265
(56) Using the Jet Dyeing Machine, William H. Eikoetter 12-24/267
(57) A Proposed Method of Measuring Rate-Of-Burn, E. B. Nielsen and H. R. Richards 12-27/270
(58) Yellow To Red Methine Dyes Derived From 1,3-Indandione, Gether Irick Jr. and James M. Straley 13-21/178
(59) Reactive Dyes On Wool, Walter Mosimann 13-27/182
(60) Geometric Designs Using Circular Chromatography, John D. Gile 13-35/190
(61) A New Test Method for Colorfastness To Steam Pleating, Fernand Schlaeppi 14-11/293
(62) AATCC Test Method 131-1969, Colorfastness To Steam Pleating 14-13/295
(63) A Color System For Absorption Spectroscopy, Roger L. Rounds 14-15/297
(64) Insulating Characteristics Of Battings, Louis I. Weiner and Jashwant Shah 14-20/301
(65) Flame Retardant Fabrics: Are Researchers On The Right Track? 14-26/307
(66) Dyeing of Acrylic Knitgoods: A Review, H. A. Weil 15-11/311
(67) How Fabrics Wear in Laundering, Clarence J. Pope and Louis I. Weiner 15-16/314
(68) Using Nonionic Surfactants, Harry T. Zika 15-26/323
(69) Recent Advances in Sulfur Dyestuff Chemistry, H. Ray Broome 15-32/329
(70) A New Test Method for Ozone Fading at High Temperature, Victor S. Salvin 16-13/332
(71) AATCC Test Method 129-1968: Colorfastness To Ozone In The Atmosphere Under High Humidities, AATCC Committee RA33 16-15/334
(72) Continuous Dyeing for Synthetic Carpet Fibers, T. L. Dawson 16-17/336
(73) Testing Abrasion Resistance By The Sand Blast Method, Clarence J. Pope and Ernest P. Parker 16-27/345
(74) The Uses of Nylon Finishing Rolls, C. H. Amidon 17-11/354
(75) Testing The Flammability of Thermoplastic Fibers, H. L. King and E. L. Ringwald 17-13/356
(76) Recent Developments in European Textile Printing, Gerhard F. Kiehslich 17-16/359
(77) Radiation Processes for Textile Finishing, Robert L. Malnati 17-20/362
(78) A Comparison of Four Flame Retardants, Wilson A. Reeves, George L. Drake Jr., John V. Beninate and Rita M. Perkins 17-24/365
(79) Silicones in the Textile Industry, J. Kermit Campbell 17-30/370
(80) One-Step Printing of Polyester/Cellulosic Blends, E. K. Roper 17-33/373
(81) Textile Industry Finding Many Uses For Polyurethane Plastic Materials, Alexander Frirdich 18-13/375
(82) Improved Dyeing Methods for Textured Polyester, Preston G. Baker 18-17/379
(83) A Review of Vapor Phase Finishing, W. J. Jutras Jr., R. J. Cicione and V. S. Kenney 18-21/383
(84) Dyeing and Finishing Nomex Nylon, R. W. Schumm and C. J. Cruz 18-27/388
(85) How To Avoid Heat Softening In Piece-Dyeing Acrylic Carpeting, John E. Dwyer 18-31/392
(86) Characteristics and Properties of HWM Rayon, David Z. Goldenberg 19-20/394
(87) Fabrics Made of HWM Rayon and Its Blends, Irvin H. Welch 19-24/398
(88) Dyeing of HWM Rayon and Its Blends, William Wygand Jr. 19-27/401
(89) Finishing of HWM Rayon and Its Blends, A. Graham Fisher 19-35/407
(90) Open Forum On HWM Rayon and Its Blends 19-38/410
(91) A Mild Cure Process For Wrinkle-Resistant Cotton Fabrics, R. M. Reinhardt, N. A. Cashen and J. D. Reid 20-33/415
(92) Acridinium Dyes With High Photolytic Stability, Gether Irick Jr. 20-41/423
(93) Infrared Spectroscopy For Identifying Surfactants, John E. Nettles 20-49/430
(94) Many Improvements Have Been Made In The Printing Of Glass Fabrics, James Price 21-11/442
(95) Dyeing Blends of Polyester/Wool And Polyester/Cellulosic Fibers, William Wygand, Jr. 21-15/446
(96) How The Structure of Cross-linked Cotton Affects Fabric Performance, S. P. Rowland, V. O. Cirino and A. L. Bullock 21-19/450
(97) Consistent Quality Control Measures Are Needed To Produce Good Flocking, Otto Heimbach 21-28/458
(98) High Kinetic Energy Fabric Processing, W. W. Macomson 21-30/460
(99) Dykolite Dyestuffs for Cellulosic Fibers, C. D. Weston and W. S. Griffith 22-67/462
(100) Acrylic Fibers: Yesterday, Today, Tomorrow, John E. Nettles and Frank Stevens 22-84/478
(101) The Chemistry of Vat Dyes: An Introduction, Jack E. Gordon 22-87/481
(102) Evaluating Disperse Dyes for Heat Fixation, Alfred L. Cate 22-91/484
(103) How The Army Tests Fabric Wear, John E. Murdock Jr. 23-18/488
(104) Customer Returns: Problem or Symptom?, Robert W. Peach 23-23/492
(105) The Textile Actuary, Braham Norwick 23-27/496
(106) How Construction Affects the Wrinkling of Polyester/Wool Suitings 23-33/501
(107) Post Mortem on Wear Testing, James P. Patton Jr. 23-38/506
(108) Structure and Application of Naphtol AS, Max O. Hueckel 23-43/510
(109) Fabric Abrasion During Laundering, Edward C. Peterson 24-18/519
(110) Washing Machines and Dryers Are Textile Processing Machines, Richard C. Davis 24-23/524
(111) Labels for Consumer Satisfaction, P. J. Fynn 24-27/528
(112) Effects of Bonding and Construction On Fabric Flammability, Southeastern Section, AATCC 24-30/530
(113) A Less Expensive Durable Flame Retardant, D. J. Daigle and D. J. Donaldson 24-34/534
(114) More Than Meets the Eye, Frances D. Gagliardi 25-19/537
(115) Relationships of Flammability Measurements, Palmetto Section, AATCC 25-23/540
(116) Dye Research for Commercial Application, Samuel N. Boyd 25-33/549
(117) A Practical Approach to Solving Textile Chemical Research Problems, J. David Reid 25-39/553
(118) New Fibers for New Textiles, D. J. Godeha 25-49/567
(119) Dyeing Polyester/Cellulose Blends By The Thermofixation Process, Maurice R. Fox 26-9/566
(120) Multicolor Piece Dyeing, Helmut Beutler and Erwin Bohnert 26-17/574
(121) Dyeing Texturized Polyester Yarns and Knitgoods, Gunter Schonrock and S. Weigold 26-23/579
(122) *N*-Methylol Allyl Carbamate In A Radiation Post Cure, C. G. Namboodri 26-29/587
(123) Bleaching With Hydrogen Peroxide, B. K. Easton 26-35/592
(124) Low Temperature Steam Setting of Resins, Gerald B. Verburg, D. V. Parikh and Sidney L. Vail 27-17/595
(125) Finishing for Durable Press and Soil Release, Heinz E. Bille, Albrecht Eckell and Gunther A. Schmidt 27-23/600
(126) How Fabric Finishes Affect the Bond Strength Of Acrylic Adhesive Bonded Fabrics, George C. Kantner 27-31/608
(127) Flame Bonding for Laminates, Maynard B. Brodbeck 27-37/613
(128) Fusible Systems for Bonding, Delmont K. Smith 27-43/619
(129) Bonding With Solvent-Based Urethane Adhesives, James P. Shealy Jr. 27-51/627

Index of Authors

AATCC Activities
Council News 1-80, 9-38/225, 12-36, 22-96
Delaware Valley Officers for 1969 4-46
Gagliardi Wins 1969 Olney Medal 17-8
Harold C. Chapin Award Competition 2-49, 3-52, 5-36
International Technical Conference in Montreal 1-90
Joseph Jones Named President 1-79
Night Courses in Rhode Island Section 23-53
Olney Medal Competition 2-49, 3-52, 5-36
1969/70 Schedule for Workshops/Seminars 17-44
P. J. Fynn Wins Chapin Award 11-9
Preview of 1969 National Technical Conference 22-37
Program for 1969 National Technical Conference 20-37
Research Committee Activity 1-82, 9-38, 12-37, 17-38, 22-97
Roster of Officers, Councilors and Administrative Committees for 1969 8-6/188
Summer Symposium 14-32
Workshops in Fourth Year 10-30

AATCC Test Methods
Committee RA33, AATCC Test Method 129-1968: Colorfastness To Ozone In The Atmosphere Under High Humidities 16-15/334
Committee RA43, Test Method 132-1969, Colorfastness To Drycleaning 9-18/209
Committee RA53, AATCC Test Method 131-1969, Colorfastness To Steam Pleating 14-13/295
Committee RA 56, Test Method 130-1969, Soil Release: Oily Stain Release Method 5-9/122

Alspaugh, T. A., Water Pollution Control at Cone Mills 6-29/150

Amidon, C. H., The Butterworth-Küsters System for Continuous Dyeing of Carpet 2-13/40

Amidon, C. H., The Uses of Nylon Finishing Rolls 17-11/354

Annual Intersectional Technical Paper Competition (1968)
Gulf Coast Section, AATCC, An Instrument for the Measurement of Frosting 2-16/43
Northern Piedmont Section, AATCC, Thin Layer Chromatography: An Overlooked Analytical Tool 2-32/58
Ontario Section, CATCC, A Proposed Method for Making Wool Shrink-Resistant Without Damaging Fiber Structure 1-54/16
Piedmont Section, AATCC, Effects of THPC on the Lightfastness of Dyes and Pigments 5-15/124
Quebec Section, CATCC, The Resistance of Dyed Textiles to Daylight 11-32/252
Rhode Island Section, AATCC, Degradation of Polyamide Fibers Exposed To Various Sources of Radiation 4-13/99
Southeastern Section, AATCC, Capillary Rise Related To the Soil Release Performance of Durable Press Fabrics 8-31/202

Annual Intersectional Technical Paper Competition (1969)
Southeastern Section, AATCC, Effects of Bonding and Construction On Fabric Flammability 24-30/530
Palmetto Section, AATCC Relationships of Flammability Measurements 25-23/540

Antoniou, Theodore and Johnson, Albert E., Drycleanfast Pigment Emulsion Systems: Their Production and Evaluation 9-19/210

Armstrong, Robert W., The Industry Has A Poor Public Image 6-21/142

Aspelin, Gary B., Prescott, William B. and Krammes, Ray R., An Instrumental Study of Variables Affecting Soil Release 10-18/231

Baker, Preston G., Improved Dyeing Methods for Textured Polyester 18-17/379

Beninate, John V., Reeves, Wilson A., Drake, George L. Jr. and Perkins, Rita M., A Comparison of Four Flame Retardants 17-24/365

Beutler, Helmut and Bohnert, Erwin, Multicolor Piece Dyeing 26-17/574

Bille, Heinz E., Eckell, Albrecht and Schmidt, Gunther A., Finishing for Durable Press and Soil Release 27-23/600

Black, R.P.S., Saad, I. A., Wygand, W. J. and Matthews, B. L., One-Pass Dyeing of Cotton/Nylon Blends 12-17/261

Bohnert, Erwin and Beulter, Helmut, Multicolor Piece Dyeing 26-17/574

Boyd, Samuel N., Dye Research for Commercial Application 25-33/549

Bright, Marshall Jr., Water Pollution Control at M. Lowenstein & Sons 6-33/154

Broome, H. Ray, Recent Advances In Sulfur Dyestuff Chemistry 15-32/329

Brodbeck, Maynard B., Flame Bonding for Laminates 27-37/613

Brown, J. L. Jr., Water Pollution Control at Cannon Mills 6-27/148

Bullock, A. L., Rowland, S. P. and Cirino, V. O., How The Structure of Crosslinked Cotton Affects Fabric Performance 21-19/450

Byrd, Dick, No Credit Where Credit's Due 6-23/144

Campbell, H. J. and Staples, M. L., Chemical Modification of Cotton By Vapor Treatment 4-33/117

Campbell, J. Kermit, Silicones in the Textile Industry 17-30/370

Carpenter, William T., Operation of the Jet Dyeing Machine 12-22/265

Cashen, N. A., Reinhart, R. M. and Reid, J. D., A Mild Cure Process For Wrinkle-Resistant Cotton Fabrics 20-33/415

Cate, Alfred L., Evaluating Disperse Dyes for Heat Fixation 22-91/484

Cicione, R. J., Jutras, W. J. Jr. and Kenney, V. S., A Review of Vapor Phase Finishing 18-21/383

Cirino, V. O., Rowland, S. P. and Bullock, A. L., How The Structure of Crosslinked Cotton Affects Fabric Performance 21-19/450

Clay, Herman M. and Wells, Dan M., Treating Wastes In A Water-Short Area 7-28/176

Colbran, R. L. and Warwicker, J. D., The Shirley Institute 6-47/165

Cooney, J. David and Wiles, David M., Treatments for Reducing Photochemical Degradation of Cotton Cellulose 2-26/52

Constantine, T. T. and Fox, K. R., Mechanical Finishing With The FRL Compactor 10-25/236

Cruz, C. J. and Schumm, R. W., Dyeing and Finishing Nomex Nylon 18-27/388

Cywin, Allen and Lacy, William J., Federal Assistance Available To Companies Establishing Pollution Control Programs 7-25/173

Daigle, D. J. and Donaldson, D. J., A Less Expensive Durable Flame Retardant 24-34/534

Davis, Richard C., Washing Machines and Dryers Are Textile Processing Machines 24-23/524

Dawson, T. L. Continuous Dyeing for Synthetic Carpet Fibers 16-17/336

Donaldson, D. J. and Daigle, D. J., A Less Expensive Durable Flame Retardant 24-34/534

Drake, George L. Jr., Reeves, Wilson A., Beninate, John V. and Perkins, Rita M., A Comparison of Four Flame Retardants 17-24/365

Dwyer, John E., How To Avoid Heat Softening In Piece-Dyeing Acrylic Carpeting 18-31/392

Easton, B. K., Bleaching With Hydrogen Peroxide 26-35/592

Eckell, Albrecht, Bille, Heinz E. and Schmidt, Gunther A., Finishing for Durable Press and Soil Release 27-23/600

Eikoetter, William H., Using the Jet Dyeing Machine 12-24/267

English, W. I., Water Pollution Control at Burlington Industries 6-26/147

Fisher, A. Graham, Finishing of HWM Rayon and Its Blends 19-35/407

Fox, K. R. and Constantine, T. T., Mechanical Finishing With The FRL Compactor 10-25/236

Fox, Maurice R., Dyeing Polyester/Cellulose Blends By The Thermofixation Process 26-9/566

Fridy, Thomas A., The Availability Of Quality Water Is Important In Picking A Plant Site 7-40/185

Frirdich, Alexander, Textile Industry Finding Many Uses For Polyurethane Plastic Materials 18-13/375

Fynn, P. J., Labels for Consumer Satisfaction 24-27/528

Gagliardi, Frances D., More Than Meets the Eye 25-19/537

Gantz, George M. and Siegrist, Gerald, Renewed Interest in Solvent Dyeing 3-12/70

Gile, John D., Geometric Designs Using Circular Chromatography 13-35/190

Godehn, D. J., New Fibers for New Textiles 25-49/567

Goldenberg, David Z., Characteristics and Properties of HWM Rayon 19-20/394

Gordon, Jack E., The Chemistry of Vat Dyes: An Introduction 22-87/481

Griffith, W. S. and Weston, C. D., Dykolite Dyestuffs for Cellulosic Fibers 22-67/462

Harris, Chester Jr., An Advanced Digital Color Matching Computer for Textile Dyers 3-40/96

Haynes, R. R., Mathews, J. H. and Heath, G. A., A New Print System for Outdoor-Indoor Polypropylene Carpeting 3-16/74

Heath, G. A., Haynes, R. R. and Mathews, J. H., A New Print System for Outdoor-Indoor Polypropylene Carpeting 3-16/74

Heimbach, Otto, Consistent Quality Control Measures Are Needed to Produce Good Flocking 21-28/458

Hill, B. V., Water Pollution Control at American Enka 6-25/146

Hueckel, Max O., Structure and Application of Naphtol AS 23-43/510

Irick, Gether Jr., Acridinium Dyes With High Photolytic Stability 20-41/423

Irick, Gether Jr. and Straley, James M., Yellow To Red Methine Dyes Derived From 1,3-Indandione 13-21/178

Johnson, Albert E., A New Test Method For Colorfastness To Drycleaning 9-17/208

Johnson, Albert E. and Antoniou, Theodore, Drycleanfast Pigment Emulsion Systems: Their Production and Evaluation 9-19/210

Jutras, W. J. Jr., Cicione, R. J. and Kenney, V. S., A Review of Vapor Phase Finishing 18-21/383

Kantner, George C., How Fabric Finishes Affect the Bond Strength of Acrylic Adhesive Bonded Fabrics 27-31/608

Kelly, Lewis T., AATCC Develops Soil Release Test 5-8/121

Kenney, V. S., Jutras, W. J. Jr. and Cicione, R. J., A Review of Vapor Phase Finishing 18-21/383

Kiehslich, Gerhard F., Recent Developments in European Textile Printing 17-16/359

King, H. L. and Ringwald, E. L., Testing The Flammability of Thermoplastic Fibers 17-13/356

Kollar, K. L., Better Management Of Water Resources Is A Must If Future Needs Are To Be Met 7-23/171

Kopacz, B. M. and Perkins, R. M., A Status Report on All-Cotton Durable Press Research 3-22/80

Krammes, Ray R., Aspelin, Gary B. and Prescott, William B., An Instrumental Study of Variables Affecting Soil Release 10-18/231

Lacy, William J. and Cywin, Allen, Federal Assistance Available To Companies Establishing Pollution Control Programs 7-25/173

Looney, F. S. Jr., How Construction Affects the Wrinkling of Polyester/Wool Suitings 23-33/501

Lundgren, Harold P., New Concepts in Evaluating Fabric Hand 1-35/1

Macomson, W. W., High Kinetic Energy Fabric Processing 21-30/460

Malnati, Robert L., Radiation Processes for Textile Finishing 17-20/362

Mathews, J. H., Haynes, R. R. and Heath, G. A., A New Print System for Outdoor-Indoor Polypropylene Carpeting 3-16/74

Matthews, B. L., Saad, I. A., Black, R.P.S. and Wygand, W. J., One-Pass Dyeing of Cotton/Nylon Blends 12-17/261

McLean, Earle R., A Millman's Use of the Computer 8-17/192

McNulty, Andrew J., Advances in Jig Dyeing Equipment 5-28/135

Michelsen, D. L., Research On Treatment Of Dye Wastes 7-32/179

Mosimann, Walter, Reactive Dyes On Wool 13-27/182

Murdock, John E. Jr., How the Army Tests Fabric Wear 23-23/492

Namboodri, C. G. Govindan, Some Aspects of Alkaline Hydrolysis of Poly(ethylene Terephthalate) 2-24/50

Namboodri, C. G., *N*-Methylol Allyl Carbamate In A Radiation Post Cure 26-29/587

Nettles, John E., Infrared Spectroscopy For Identifying Surfactants 20-49/430

Nettles, John E. and Stevens, Frank, Acrylic Fibers: Yesterday, Today, Tomorrow 22-84/478

Nettles, John E. and Stevens, Ronald W., Dyeing Texturized Polyester On Packages and Pressure Becks 10-15/228

Nielsen, E. B. and Richards, H. R., A Proposed Method for Measuring Rate-Of-Burn 12-27/270

Norris, R. T., High Temperature Steaming in Continuous Piece Goods Dyeing 3-31/88

Norwick, Braham, The Textile Actuary 23-27/496

Olson, Edward S., The Continuous Dyeing of Tufted Nylon Carpets 9-32/220

Paessler, A. H., Water Quality Management In Virginia 7-35/181

Pangle, J. C. Jr., Water Pollution Control at Dan River Mills 6-31/152

Parker, Ernest P. and Pope, Clarence J., Testing Abrasion Resistance By The Sand Blast Method 16-27/345

Parikh, D. V., Verberg, Gerald and Vail, Sidney L., Low Temperature Steam Setting of Resins 27-17/595

Patton, James P. Jr., Post Mortem on Wear Testing 23-38/506

Peach, Robert W., Customer Returns: Problem or Symptom? 23-23/492

Perkins, R. M. and Kopacz, B. M., A Status Report on All-Cotton Durable Press Research 3-22/80

Perkins, Rita M., Reeves, Wilson A., Drake, George L. Jr. and Beninate, John V., A Comparison of Four Flame Retardants 17-24/365

Peterson, Edward C., Fabric Abrasion During Laundering 24-18/519

Pope, Clarence J. and Parker, Ernest P., Testing Abrasion Resistance By The Sand Blast Method 16-27/345

Pope, Clarence J. and Weiner, Louis I., How Fabrics Wear In Laundering 15-16/314

Prescott, W. B. and Stearns, E. I., Colorimetric Evaluation of Oil Stains on Textile Fabrics 1-64/26

Price, James, Many Improvements Have Been Made in the Printing of Glass Fabrics 21-11/442

Prescott, William B., Aspelin, Gary B. and Krammes, Ray R., An Instrumental Study of Variables Affecting Soil Release 10-18/231

Rebenfeld, Ludwig, Anionic Graft Polymerization of Acrylonitrile on Cotton Yarns 8-25/198

Reeves, Wilson A., Drake, George L. Jr., Beninate, John V. and Perkins, Rita M., A Comparison of Four Flame Retardants 17-24/365

Reid, J. David, A Practical Approach to Solving Textile Chemical Research Problems 25-39/553

Reid, J. D., Reinhart, R. M. and Cashen, N. A., A Mild Cure Process For Wrinkle-Resistant Cotton Fabrics 20-33/415

Reinhardt, R. M., Cashen, N. A. and Reid, J. D., A Mild Cure Process For Wrinkle-Resistant Cotton Fabrics 20-33/415

Richards, H. R. and Nielsen, E. B., A Proposed Method for Measuring Rate-Of-Burn 12-27/270

Ringwald, E. L. and King, H. L., Testing The Flammability of Thermoplastic Fibers 17-13/356

Ritter, Robert E., Organic Solvents in Preparation and Finishing 10-22/234

Roper, E. K., One-Step Printing of Polyester/Cellulosic Blends 17-33/373

Rounds, Roger L., A Color System For Absorption Spectroscopy 14-15/297

Rowland, S. P., Cirino, V. O. and Bullock, A. L., How the Structure of Crosslinked Cotton Affects Fabric Performance 21-19/450

Saad, I. A., Black, R.P.S., Wygand, W. J. and Matthews, B. L., One-Pass Dyeing of Cotton/Nylon Blends 12-17/261

Salvin, Victor S., A New Test Method for Ozone Fading at High Temperature 16-13/332

Salvin, Victor S., Ozone Fading Of Dyes 11-22/245

Schlaeppi, Fernand, A New Test Method For Colorfastness To Steam Pleating 14-11/293

Schmidt, Gunther A., Bille, Heinz E. and Eckell, Albrecht, Finishing for Durable Press and Soil Release 27-31/608

Schnider, E. F. and Schouten, C. W., The Interrelation of Dyes and Soil Release Finishes on Polyester/Cellulosic Blends 4-25/110

Schonrock, Gunter and Weigold, S., Dyeing Texturized Polyester Yarns and Knitgoods 26-23/579

Schouten, C. W. and Schnider, E. F., The Interrelation of Dyes and Soil Release Finishes on Polyester/Cellulosic Blends 4-25/110

Schumm, R. W. and Cruz, C. J., Dyeing and Finishing Nomex Nylon 18-27/388

Segall, William M., A Fire in Our Bosom 3-9/67

Shah, Jashwant and Weiner, Louis I., Insulating Characteristics Of Battings 14-20/301

Shealy, James P. Jr., Bonding With Solvent-Based Urethane Adhesives 27-51/627

Sherman, Patsy O. and Smith, Samuel, The Physical Chemistry of Stain Release 4-20/105

Siegrist, Gerald and Gantz, George M., Renewed Interest In Solvent Dyeing 3-12/70

Smith, A. L., Water Pollution Control at Chatham Mfg. Co. 6-28/149

Smith, Delmont K., Fusible Systems for Bonding 27-43/619

Smith, Samuel and Sherman, Patsy O., The Physical Chemistry of Stain Release 4-20/105

Staples, M. L. and Campbell, H. J., Chemical Modification of Cotton By Vapor Treatment 4-33/117

Stearns, E. I. and Prescott, W. B., Colorimetric Evaluation of Oil Stains on Textile Fabrics 1-64/26

Stevens, Frank and Nettles, John E., Acrylic Fibers: Yesterday, Today, Tomorrow 22-84/478

Stevens, Ronald W., and Nettles, John E., Dyeing Texturized Polyester On Packages and Pressure Becks 10-15/228

Straley, James M. and Irick, Gether Jr., Yellow To Red Methine Dyes Derived From 1,3-Indandione 13-21/178

Symm, Richard H., Reactive Finishes Applied From Chlorinated Systems 6-42/161

Tesoro, Giuliana C., Flame Retardant Fabrics: Are Researchers On The Right Track? 14-26/307

Troope, W. S., Micro-Stretch: A New Aid to Resin Finishing 5-32/138

Vail, Sidney, Verburg, Gerald B. and Parikh, D. V., Low Temperature Steam Setting of Resins 27-17/595

Verburg, Gerald B., Parikh, D. V. and Vail, Sidney L., Low Temperature Steam Setting of Resins 27-17/595

Waldron, Earl T., The Effect of Textile Finishes on Thermal Protection 5-22/130

Ward, John, Instrumental Shade Sorting To Visual Acceptance Limits 9-25/214

Warwicker, J. D. and Colbran, R. L., The Shirley Institute 6-47/165

Weaver, J. W., Information Retrieval For Beginners 6-39/158

Weigold, S. and Schonrock, Gunter, Dyeing Texturized Polyester Yarns and Knitgoods 26-23/579

Weil, H. A., Dyeing of Acrylic Knitgoods: A Review 15-11/311

Weiner, Louis I. and Pope, Clarence J., How Fabrics Wear In Laundering 15-11/311

Weiner, Louis I. and Shah, Jashwant, Insulating Characteristics Of Battings 14-20/301

Welch, Irvin H., Fabrics Made of HWM Rayon and Its Blends 19-24/398

Wells, Dan M. and Clay, Herman M., Treating Wastes In a Water-Short Area 7-28/176

Weston, C. D. and Griffith, W. S., Dykolite Dyestuffs for Cellulosic Fibers 22-67/462

Wham, George S., Delegates Pleased With Results of ISO Meeting on Colorfastness Tests 1-50

Wiles, David M. and Cooney, J. David, Treatments for Reducing Photochemical Degradation of Cotton Cellulose 2-26/52

Wygand, William Jr., Dyeing Blends of Polyester/Cellulosic Fibers 21-15/446

Wygand, William Jr., Dyeing of HWM Rayon and Its Blends 19-27/401

Wygand, W. J., Saad, I. A., Black, R.P.S. and Matthews, B. L., One-Pass Dyeing of Cotton/Nylon Blends 12-17/261

Wyszecki, Gunter, The Degree of Color Metamerism and Its Specification 1-46/12

Zika, Harry T., Using Nonionic Surfactants 15-32/329

Textile Chemist and Colorist is available on microfilm from University Microfilms, Ann Arbor, Michigan 48106.

We've found answers....
....We're looking for problems!

Is your problem worn scales on individual fibers . . . fractured surfaces on cast fabrics . . . or treated surfaces on woven yarns? Get your answers today, using our . . .

SCANNING ELECTRON MICROSCOPY SERVICES

- **Magnifications to 50,000X.**
- **Direct observation of sample.**
- **Extraordinary depth of focus.**
- **A single micrograph or a complete study.**

MICROANALYSIS LABORATORY

2351 Research Blvd., Rockville, Md. 20850 301-948-6494